

## **Why we should all be Bayesians (and often are without knowing it)**

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Most epidemiologists write their methods and results sections as frequentists and their introduction and discussion sections as Bayesians. In their methods and results sections, they "test" their findings as if their data is the only data that exists. In the introduction and discussion, they discuss their findings with regards to their consistency with previous studies, as well as other issues such as biological plausibility. This creates some tensions, e.g. when a small study has findings which are not statistically significant but which are consistent with prior knowledge; or